

ABSTRACT

ENHANCEMENT OF HEMATOPOIETIC STEM CELL SURVIVAL

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A composition is disclosed that includes lin^- cells that are characterized as expressing CD31, CD34 and CD105, and not expressing c-kit, wherein the composition comprises fewer than 20% of lineage committed cells. Methods are disclosed for isolating $\text{CD31}^+\text{CD34}^+\text{CD45}^-\text{CD105}^+\text{c-kit}^-$ cells. Methods for

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reconstituting hematopoiesis using compositions including $\text{CD31}^+\text{CD34}^+\text{CD105}^+\text{CD45}^-\text{kit}^-$ cells are also disclosed.